Appl. No. 10/719,148 Amdt. Dated April 18, 2006 Reply to Office action of March 13, 2006

## **AMENDMENTS**

## Amendments to the Claims:

This listing of claims will replace all prior versions, and listings, of claims in the application:

## Listing of Claims:

- (Currently amended) A four-stroke engine comprising:
  - a crankcase;
  - a crankshaft supported for rotation within the crankcase;
  - an oil reservoir located within the crankcase; and
- means for vibrating the crankcase to mist oil from the oil reservoir to lubricate non-crankcase engine components, wherein the means for vibrating the crankcase includes a vibration mechanism coupled to a portion of the crankcase.
- 2. (Original) The four-stroke engine of claim 1, wherein the means for vibrating the crankcase includes the crankcase having a wall thickness of about 1.5 mm.
- 3. (Original) The four-stroke engine of claim 1, wherein the means for vibrating the crankcase includes the crankcase having a wall thickness of less than 1.5 mm.
- 4. (Previously cancelled)
- 5. (Previously presented) The four-stroke engine of claim 1, wherein the vibration mechanism is a vibration plate.
- 6. (Previously presented) The four-stroke engine of claim 1, wherein the vibration mechanism is a vibration spring.
- 7. (Previously presented) The four-stroke engine of claim 1, wherein the vibration mechanism is coupled to a bottom portion of the crankcase.
- 8. (Original) The four-stroke engine of claim 1, wherein a clearance area located in the crankcase is less than 10 mm.

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- 9. (Original) The four-stroke engine of claim 1, wherein a clearance area located in the crankcase is about 1.5 mm.
- 10. (Original) The four-stroke engine of claim 1, wherein a clearance area located in the crankcase facilitates splashing of the oil against a counterweight.
- (Previously presented) A four-stroke engine comprising:
  a crankcase;
  a crankshaft supported for rotation within the crankcase;

an oil reservoir located within the crankcase; and

means for misting oil from the oil reservoir without the use of an oil dipper, wherein the means for misting oil includes providing a clearance area in the crankcase which is less than 10 mm such that a surface ripple in the oil reservoir splashes against a counterweight in the engine.

- 12. (Previously cancelled)
- 13. (Previously cancelled)
- 14. (Previously presented) The four-stroke engine of claim 11, wherein the clearance area is about 1.5 mm.
- 15. (Original) The four-stroke engine of claim 11, wherein the means for misting oil from the oil reservoir includes utilizing engine vibration to produce a ripple in a surface of the oil.
- 16. (Original) The four-stroke engine of claim 15, further comprising a vibration mechanism coupled to the crankcase to amplify the ripple.
- 17-19. (Previously cancelled)
- 20. (Previously presented) The four-stroke engine of claim 1, wherein the vibration mechanism is mounted on the crankcase.

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- 21. (New) The four-stroke engine of claim 1, wherein the non-crankcase engine components include valving components.
- 22. (New) The four-stroke engine of claim 21, wherein the valving components include at least one of an intake valve or an exhaust valve.
- 23. (New) The four stroke engine of claim 21, wherein the valving components include valve drive train components.
- 24. (New) The four stroke engine of claim 23, wherein the valve drive train components include at least one of a rocker arm, valve spring, pushrod, or cam.
- 25. (New) The four-stroke engine of claim 1, wherein the engine includes at least one passage therein to permit fluid communication between the crankcase and the non-crankcase engine components.
- 26. (New) The four-stroke engine of claim 1, wherein the means for vibrating is coupled to an exterior portion of the crankcase.